

5650-7A



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RAW SEQUENCE LISTING

DATE: 02/15/2002 #9

PATENT APPLICATION: US/09/830,228

TIME: 11:18:48

Input Set : N:\Crf3\RULE60\09830228.raw

Output Set: N:\CRF3\02152002\I830228.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

- 7 (i) APPLICANT: Gil Choi et. al.
 10 (ii) TITLE OF INVENTION: Borrelia burgdorferi Polynucleotides and Sequences
 13 (iii) NUMBER OF SEQUENCES: 155
 16 (iv) CORRESPONDENCE ADDRESS:
 18 (A) ADDRESSEE: Human Genome Sciences, Inc.
 20 (B) STREET: 9410 Key West Avenue
 22 (C) CITY: Rockville
 24 (D) STATE: Maryland
 26 (E) COUNTRY: USA
 28 (F) ZIP: 20850

ENTERED

31 (v) COMPUTER READABLE FORM:

- 33 (A) MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
 35 (B) COMPUTER: HP Vectra 486/33
 37 (C) OPERATING SYSTEM: MSDOS version 6.2
 39 (D) SOFTWARE: ASCII Text

42 (vi) CURRENT APPLICATION DATA:

- C--> 44 (A) APPLICATION NUMBER: US/09/830,228
 C--> 46 (B) FILING DATE: 24-Apr-2001
 48 (C) CLASSIFICATION:

51 (vii) PRIOR APPLICATION DATA:

- 53 (A) APPLICATION NUMBER: PCT/US98/12764
 55 (B) FILING DATE:

59 (viii) ATTORNEY/AGENT INFORMATION:

- 61 (A) NAME: Brookes, A. Anders
 63 (B) REGISTRATION NUMBER: 36,373
 65 (C) REFERENCE/DOCKET NUMBER: PB370PCT

C--> 69 (ix) TELECOMMUNICATION INFORMATION:

- 71 (A) TELEPHONE: (301) 309-8504
 73 (B) TELEFAX: (301) 309-8512

77 (2) INFORMATION FOR SEQ ID NO: 1:

79 (i) SEQUENCE CHARACTERISTICS:

- 80 (A) LENGTH: 910715 base pairs
 81 (B) TYPE: nucleic acid
 82 (C) STRANDEDNESS: double
 83 (D) TOPOLOGY: linear

87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

89 ATATAATTTT TAATTAGTAT AGAATATGTT AAACTTTACC CTTGAATTTT TCTACTCTAT	60
91 TTGTATATTC TATAGAAAAA ACGATTAGAA TTAAACAAAG CCATAACTGA ACCAACGGTA	120
93 ATTAGTAGAT AAAGGGATCA AAATATTTTT TATTGCAGCA AGAATACCTT GGTATATTAG	180
95 AAAAACCAAA AGTCATAGTC AAATCATCTT TTGATAACAA TCCCCAAATC TATAATTTAT	240
97 TATGAAATTA ATTGCTCCCT TGAAAAGATT AGTTTTTAAA ACTACAAGAC TACTATCAAT	300

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99	CACTATCAGA	TAGATTAAAA	CAACCTTTAC	AAGAAAAAAA	TCTTACTACT	ATTTTATTGT	360
101	AAATGTATTA	TAAAAAAGT	TCATGCAAAA	ACTTACAATT	TTTCACAACA	AACTACAATA	420
103	AAATCATGTA	AACAAACAAT	TTCTTTGAAA	ATTAAGCAAA	TTTATAAAATA	TAAATTATAA	480
105	AGATATATAT	TTTTATATGA	TCAATAATAA	AAATTAATAG	GATACTTATT	TGGAAAAAAT	540
107	ATTGAAAAAA	CAATAAGCAT	GAATTGCCAC	AATAAGCTAA	TTGTCACTTA	ATAATTCTTG	600
109	TTTACTAGAC	CACATTAGTA	TAAACTCAAA	TATTGGCTAC	TATAATATAG	GGGCTTTATA	660
111	CGCCACATGT	TTAATGATAA	CATAAGAAAA	TATTGCAATA	ATAAAAAGAT	TGAAATATCT	720
113	TTATTAGAAA	AGAATCTCGA	TAATTTAGAA	AACAGAATAA	AAATCATAAC	TAATAAATAT	780
115	AACGTTGAAA	AAAATATATT	CAAACCTTAA	CTATACAATT	AATTACACCT	TAAAAATGCG	840
117	TTACATAAAA	ATTAAGGACT	ACTATAAATA	GAAAACACCA	CATAACCTAC	AGACTCTAAA	900
119	GGAATAATTA	AATCCTCATA	TTTCAGTTCT	CCAAAAGTTT	AAATAGGGGC	CTTTTACTTT	960
121	TCTTGATTAG	CATATACATT	ATTAAAGGCA	TCTTCTTGGG	CACTATCCTA	AACTTTTTTTA	1020
123	CATTATTATT	ATTTTATTCT	TTATTATTAC	AAGATAATTC	AAGAATCTAG	ATTACAAGAT	1080
125	ATCAATCCTG	CCATTAGTAG	TTCAATAAAA	CATTTAGAAT	ATTTATACAT	TATTTAATGT	1140
127	ATTTTTTTTCA	TTTTTGAAAT	AATATTGTTA	TAACCTAACT	TAATAAGATA	TTTGATTTCCT	1200
129	TCAACTTGAG	AATCCGATGT	ACATAGAATC	TGAACATCTC	CTCTGCCCCA	TTTGCCAATA	1260
131	TTCTTAATAT	ATCTAGTAAA	ACCTCTTTTT	AAAATTATTT	GATCTAGAGC	AACAGTAATA	1320
133	GTAATATTAA	TTTTATTTTAC	CCCAGGTCTA	AAGCTAAAAT	CTACAAAATA	TCCGCCCTGT	1380
135	ACTTTAAATC	CTGTATAGCA	CTGTGTTTCA	ACTTTCTCAA	TTTCATTAAA	ATTTAAAACA	1440
137	AAAATAAAAT	CTTCTAATTC	TTTATATATT	GCTTTCATAT	CGGAATTTAA	TTTTTCAAAT	1500
139	TTTTTTTAAAT	TTCGTTTTTT	AATATTATTA	TCTTTTATAC	CAGAATCTGT	GTCACTCTTCT	1560
141	ATGTCACTTT	TCTTGCTGTT	TACTAATACA	TCGCTTTTTT	TTTCATCAAA	AAACATACTA	1620
143	AAAATATTTT	TAATAATATC	ATTAAATATT	TTATCTGAAT	ATGTTTTTTT	AAAACCAATT	1680
145	TTAGCTTTAA	AAAAATCAAG	CAAATCAACA	CTTGGAATTT	TTGTTTCCTT	TTTTAAATAA	1740
147	GCTGAAAATT	TGTCTGTATA	TTTTTTTTTCT	AATGCAAAAG	ATCTAGCCTC	TTCAACATTC	1800
149	AAAGAATTTT	TAGAAAACCT	TTTAAGATAT	TCAAAATCCT	TAGATGTTAA	TTTTTCTAAA	1860
151	TTAACAACCA	TAAAAGGCTC	ATTGTCTAAC	AAATTATCTT	TATCTAGGTC	AGTATAGAAT	1920
153	CTATATTCTA	TGCCATCTGT	TAATATACCA	AATTCAACTC	TCTTTGCTTG	AGAACGAATA	1980
155	TTTTCAAAAT	AAGGTTTTTA	TTGCTTTAGA	TGATTTTCAA	GCTTTTCCCT	GCTATTATGA	2040
157	TATTTGGCCT	CTATTAAAAT	AGTGGGTTCT	TCATCCTTTT	TTGTTGGATA	AATAACATAA	2100
159	TCAACCCTTT	TTAGTCCATC	TTTAAGAATA	TCTGCCTTCT	CTTCAACTTT	AACAATTGAA	2160
161	ATATCAGTAT	GATCATAGCC	CATCGCATCT	AAAAATGGAT	CAATAAGATT	TTGTCTTGTT	2220
163	TGTGCTTCAT	TTTCAATAAG	ATCCTTATCC	TTTTGAATTT	TTCTACTTAC	AGCTTTTATT	2280
165	GAATTTTCAA	AATTTTATAT	TTTGTATTCA	TTTGGCATAA	TTATATTTTA	CCAATAAAAT	2340
167	TAAAAATTAA	TAATTCTAAA	AATAAATTTT	CAAAATGTTG	TCTATTTTAA	ACTCTTAACT	2400
169	GATACCTTAA	TTCTTTTTTT	TACCTAATTT	TTTAGTTTAA	AATCTTATTT	TTTAATTTTA	2460
171	TTATTTTTTT	CTTACCTTAT	TTTACTATAA	ATTTTTAGTA	TTTAGCGAAT	AATTTTCATA	2520
173	TCCTTTTTAT	AAAGACAAAA	TATGATTTTC	TCTTTTTTGT	TTTTTAATAC	CTTAAAATCA	2580
175	CTAAGCAAAG	TAAATAAGTC	TTCTTTGGTT	AATGAATAAA	AGACTAGCTA	TAATAAAATT	2640
177	ATTTTATTTT	TCTTTACTAA	ATTCAAAATG	CTCTAAATAA	AGCAAATTAG	AGAAATTCAA	2700
179	AGGATCATT	TTAGCTATTA	GCAGAGAAGT	GTTTTTTACC	AAAGTTAGAC	ATAATGAAC	2760
181	AGCCAAAATT	TCTTCTTTGG	GTTGAGGCAT	TGGACATTGA	CAAAGAAATG	ATTTTACAAT	2820
183	GTCGGTATTT	TAAAACAAAT	CTTCTAATCA	TAAAATCAAA	TACAGTGCAT	TGAAAATAGA	2880
185	TATAATAAAC	AATTTTTTAT	AAAAAGATAT	TGGTATTTTC	TCACAATTCA	TATCTATTTT	2940
187	ATAGAAACAC	AATAATAATT	TTTAGGAGAT	AAAGTGCTAA	TCATGGTTCT	TTCATTTGTA	3000
189	TTGCTTGCAA	TTCTTCTATA	AAATATTCTT	TCATTTGGGT	ACTGATCATC	TTTAGTTAAG	3060
191	ATTTTTTCTA	AATCTTCTTT	ATATCCTATC	CATAAAAGCT	TATAACCTTC	TTTTACATAA	3120
193	TCATAAGTAA	AAAATCTTAA	ATTAAATTGA	TAGATATTAG	CCCCAGAATA	AAGAAATATA	3180
195	AAGTTTTTCAT	TATTATATTC	CTTTAATAAA	GATTTGCGAT	TCTTTTACT	TGGATCTGGC	3240

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197	CCTTTTTTAA	AATTAATATC	TTCTTTACTA	AGAATACTAA	ATGAACTAAA	TATTTTGTTT	3300
199	AATTTGGCCC	ATGTTTAATT	CAATTCCTTT	ATAAGGATTT	TCTTTGCAGT	CTTTTAAGTC	3360
201	TCTAGTTATT	CCTTAATAAT	ATTATCACTA	CTTTGAATAA	CAAATTTTGC	TTTAAAATTT	3420
203	AATGTAAAAAG	TTTATTACTA	CGAGGAAATA	TCGCAAATTT	AAAACCTGAA	TGCATATCTT	3480
205	AAAACCTTTT	TTTGTTTTCA	AACTGATAAA	TAAGTTAAGT	TTATAATTAC	TAAATATATG	3540
207	CTTCTTAGC	AAGCTAAGAC	CAAATATCAC	AATAGAAGTA	ATTCTCAATA	AACAAAATAC	3600
209	AAAAAGTAGT	TATCATATCG	TCTTTAACCT	TAAATAAGGT	TGCTATAAAC	AACCAAGATA	3660
211	TTTAATTTCT	TTTAAAACCC	TTATTCAATC	TTTTTAAGCA	TAGGATCTTA	TAATTATAAG	3720
213	AATATAATTT	TATTTACATC	TCTATATTAA	TAGAAAGATG	CAAATATGTG	ATCAAATTGT	3780
215	TATTTTGTGA	ATATGGAATA	GTCTTTTATA	GGGACGCTTA	ATGCTCTATA	CTTAAGATTG	3840
217	GAAATCTCTA	TGAAAAATA	TACTCGCTAC	CCATGTAAAG	CTGACTTATT	TTAGCACGTA	3900
219	TCGCTTAAAC	AATTATATTT	ATATTATCTT	TTATAAAGTT	AATTTTTTCT	TGTAGATTAT	3960
221	TTTTTAATAA	AAAAGGCACA	AATTACCACA	ACAAGTCCA	GTATAAATTA	ATAGTTCTTA	4020
223	TCTCAACACT	AAAGTACATA	AACATCAAAT	ATCAAAAATA	TATAAGAACA	ACATACTACA	4080
225	TTGTTTTAAT	GAAAACCTTA	AAAGGAATGG	TAAACTCTC	ATTAAGCTAA	AACCAATGCA	4140
227	AAAATATCTT	TATAAATTAG	CAAAAGAACT	AAAAGTCACA	AACAACCTACC	ATAAAAATTT	4200
229	GGTAGTAAAT	TCTGGAAGT	AAATTTACTA	TAAACTCAAT	TATTCTAAAA	AAAATATTGC	4260
231	CTTAAATTAA	AGAATGCCTT	AAAAAAACAA	AATGCTCTGA	TTTAAACCTA	TACCCAAAAT	4320
233	ACAAATTTAC	TAAAGAAGAA	GATATAGATT	TAGAGAAGAT	CTTAATAATA	AAAATATTAA	4380
235	TATAAAAGTT	GCTCAGTATG	CTAAAGGCAA	AGAGTTTAAAG	TCAAGTTTAG	AAATTACAAA	4440
237	GAGTAAAACT	ATAAACTTCC	TTTAAAGATG	AAAATTTATT	TTTATACTTA	CTTGGCTTAA	4500
239	TATTAAGATT	TTTTTATTCT	TTTCATAATA	ATCTCTTCTA	TCACTTAACA	TTTGCTATA	4560
241	CAAAAATCTT	ACACATCTAA	ATACTTTTTA	AAAAAATTTG	ATTAGTGTTA	GAATATAATC	4620
243	TATATTTATA	AACTTTATTA	GCACTCATAA	TTTTACTAAA	TTAATATATT	ATATTTAATT	4680
245	TATTTTTAAA	ATTTTACTCC	ATTTACCAAA	AAAACCTAAA	TAAAACTCTC	CAAACTTATA	4740
247	AATAAAAAAA	TAAGGCAAAA	CCCCAACAAA	CTCAAGATCT	ATAATACAAA	AATACAATAT	4800
249	AAGAATCCCA	AGCTTAAAAA	CAACCCCTTA	AAATCTTTTT	TTATTGGCGT	TTTTAAATAA	4860
251	TGGTAATAAA	GAATTCCAAT	CAACACGATC	CCCCCTACAA	CTTTTCAAAC	CCTATAGCTT	4920
253	GGCTTTTTAT	ATTATTTTTA	AATTTACATG	TCACAACAAT	AGATAATGCA	TAAAAAAGT	4980
255	ATTAATAAAA	CAAATACATT	TATAGAACCT	ATACAATTAT	TGAGCATATG	GCTAGTACTA	5040
257	AAAATGAAAA	TGTACAAGAT	AATATGCTAT	TAATAAAAAAT	TAATGGCTAC	TAAAACTTT	5100
259	GAATCCACAT	TTTTTCTTTA	AAAAAATCT	AAATTATTAA	AATAAATAGA	AATTTAAATT	5160
261	ACCAAAAATA	TTATTATAGT	AATAAATATG	TAAAGCTATT	TTTATTAAAA	CTGATAATAA	5220
263	AAATATAATA	GCTAAAATAA	CATAAATTAA	CTTTAAATTA	TATCAAAGAC	TTAGATTTAA	5280
265	AATATTTAAT	AAAAGGCAAA	GCTATAAACA	CCATATACTT	ATTTTATTAT	TTTTTTCATT	5340
267	TTATTTAAAT	TAATTTAAAT	AAGACTCAAT	CAAATAATCA	ATCAAACATA	TTGGGTGAAG	5400
269	AAAAAATAGG	GTATTCTTGG	TGAATCGTTT	TAAAAGGGGG	TATAGTAAGC	TAAAAAACTC	5460
271	TTATTAAAGA	GGATGTTTAT	AGACTTAAAA	GTCTAATTCA	ATATGAAAGA	GGCTTTTTTAA	5520
273	AGCTAAAAAT	GTTAAAGAAA	ATCAAATTAA	GCAACAAGAT	GGTTTTGTTT	CTATAAATAG	5580
275	TTTTAAAGAA	TATATACATT	TGCACATACC	CTTCATTATA	ACATCTACTA	ATTACACAAT	5640
277	AAAAATAAAA	ATGATTTATT	AAGAATTATT	AGTAACTTAT	AAAAACTTTA	TAAGTTACAT	5700
279	AGTCAAAAAT	ATAAAAAATT	AAAACAAAAA	ATTAACGATA	TGGAAAAATT	GTATTTTATA	5760
281	GAAATAGAAA	TATATTTGCA	TTAAACAACT	ATGAATTTAT	AAAGATTCTA	GTAGGAGAGA	5820
283	AAATATGAAA	AAAAAAATTT	TATCAATTTA	CATGATAATG	CTAATAAGTT	TATTATCATG	5880
285	TAATACAAGT	GACCCCAATG	AATTAACCTG	TAAAAAAATG	CAAGACAAGA	ACGTGAAAAT	5940
287	TTTAGGATTT	TTAGAGAAAA	TTCAAGCAGA	TAATAAAGAA	ATTGTTGAAA	AACATATAGA	6000
289	AAAAAAGAAA	AAACAAATGG	TGCAGGCTGC	TTCTGTAGCA	CCTATTAATG	TAGAGAGTAA	6060
291	TTTCCCATAT	TATCTTCAAG	AAGAAATAGA	GATAAAAGAA	GAAGAGTTGG	TTCCAAATAC	6120
293	TGATGAAGAA	AAGAAGGCAG	AGAAGGCAAT	TAGCGATGGG	AGTCTTGAAT	TTGCTAAATT	6180

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Input Set : N:\Crif3\RULE60\09830228.raw

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295	AGTTGATGAT	GAAAATAAAC	TTAAAAATGA	ATCTGCGCAA	TTAGAATCTA	GTTTTAATAA	6240
297	TGTTTATAAA	GAAATCTTAG	AACTTGCAGA	TTTAATACAA	GCAGAGGTGC	ATGTTGCAGG	6300
299	AAGGATAAAT	AGCTATATAA	AAAAAAGAAA	GACCACTAAA	GAAAAAGAAT	ATAAGAAGAG	6360
301	AGAAATTAAG	AATAAGATAG	AAAAACAGGC	TCTAATTAAG	TTGTTCAATC	AGTTATTAGA	6420
303	AAAAAGAGGC	GATATTGAAA	ATCTTCATAC	TCAATTAAT	AGTGGACTTA	GCGAGAGAGC	6480
305	ATCTGCAAAA	TACTTTTTTTG	AGAAAGCCAA	AGAAACTTTA	AAAGCTGCTA	TTACTGAAAG	6540
307	ATTAAATAAC	AAACGTAAAA	ATCGGCCATG	GTGGGCAAGA	AGAACACATA	GTAATTTAGC	6600
309	AATACAGGCA	AAAAATGAGG	CAGAGGATGC	TTTAAACCAA	TTAAGTACTT	CTTCTTTTAG	6660
311	GATACTTGAA	GCAATGAAAA	TAAAGGAAGA	TGTAAAACAG	CTTCTTGAAG	AAGTAAAATC	6720
313	TTTTCTAGAT	TCTTCAAAGA	GCAAAATCTT	TTCTAGTGGC	GATAGATTAT	ATGATTTTTT	6780
315	AGAGACGAGT	AAATAAAAAA	ATATATTTTA	AAGGCTAATA	ACTTAAAATC	AAAGTCTTCT	6840
317	GTAAAGGAA	GACTTTTTTTA	TAATTTTATT	TAAATAACGA	AAAGCTTGAT	AGTTAAAAAA	6900
319	TCTTTTTTAT	TAAAAATATG	TTTACTAAAC	AGAGCTCAAA	AATGACTATA	TTTAGTATCT	6960
321	CTATAAAAGA	ATTTTTCAT	ATTTTAAAAA	ATTTATAGAT	AAACATAATC	TAAAACCATG	7020
323	CATTAATACA	AACCTAAAAC	ATACTTGGTC	ACTTGTAATA	GTAAATTGTA	TCTAACTTTT	7080
325	TTTATTTATT	GAATATACGT	AAAAATTCTT	TATAATTTCT	ATTTTAAAAC	GCTGCTATTT	7140
327	AGCAATACAA	TAAAAGGCAT	TACAGATTGC	AATCAAACAA	ACTAAAGTTT	AAATAAAATA	7200
329	TTACCCCTCTG	TTCTAATCCT	ATCAAACAAG	GTAATAAATT	CTTTAAATTT	CTAAAAGCCT	7260
331	AACTTTTAAA	AGAACTTGTC	GAAAATAATA	TTTCTCTTAA	AAAAGGTTCT	AATCTTTTAT	7320
333	TTATAAGAAC	TTTTTATACTA	TTATAAAAAA	GTATCTTGCC	TTGATATATT	TGTATTCCTT	7380
335	ATAAATCAAG	CCTTCTACTT	TTTTTAAAGAA	TATTTCTATT	TTTTTATAAA	TAGTTTTCTA	7440
337	CAATAGAAAA	GAAATAACCC	AAAGCCCTAA	AACTTAAAT	AAATGTTAGC	TATAATAACT	7500
339	AAAATAGAGA	TAAAAAATC	AATCATAAAT	AATGGTAAAA	CAAACTTAAA	CCACGTACCA	7560
341	TAACCTCAATC	TGGATATCCC	CAATACAGCC	ATTATAAATC	CGCTGGTAGG	TGTTATCAAA	7620
343	TTAATAAGCC	CAGATGCAGT	CTGCATGGCA	ATAACAACCTG	AAGCTCTTGG	AATTGACAAA	7680
345	AAATCGGCAA	GAGGAGCCAT	TATTGGCATA	GTGAGACTAG	CATGTCCTGA	TGAAGATGGA	7740
347	ACAACAAATC	CTATAAATAT	TTGAATAATT	TCATTCAATA	TGATAAAAAAG	GGGTCTTGGA	7800
349	AGATTGTATA	AAAAATTAGT	AGCAGCATTT	AACATAGTAT	CTGTAATCAA	CCCATCATCA	7860
351	CATACTATCA	TAACACCTCT	AGCAAGTCCA	ATAACAAGAG	CAGCGGTTAG	CAGACTTTCA	7920
353	GAACCTTTCA	CAAACGCATC	CCACATTTCA	GTTTCACCTA	ATTTACAAAT	AAAAGCCGAT	7980
355	ATAATAGCAA	CTCCAAGATA	CAACATTGTC	ATTTCTTGCA	TCCACCAACC	AAGATTAACA	8040
357	ATGCTAAATA	TCAAAATCAA	TATCATAAAT	CCAAATAAAA	GTAAACTAA	TTTATGAGCA	8100
359	AAAGTAAACT	CAAGAGCATT	CTGAGCATTA	TCTCCGGTAG	AAAGTCCATC	TTTTTTAACA	8160
361	AAATATTGAT	AATGTTTCATC	TTTTTGAGAA	TACACAAGCG	ATTTTGAGGG	ATCCTTTTTA	8220
363	ATTTTAGACG	CATAAACACA	AACATAGGTT	ATAGCAGCCA	ATACTGATAC	AAAATAAAGA	8280
365	ACAATTCTAA	AATAAAATCC	ATCCTGCAAG	CTAATAGAAG	CTATTGCAGA	TGCAATTCCT	8340
367	GTCGCAATG	GATTTACAGT	AGAAGCCATA	GTTCCCACTC	CAGCTCCTAA	AGCAATAATA	8400
369	GCCGCTCCAA	CAAGACTATC	ATAACCCAAA	GCTACTATCA	AGGGAATCAT	AACAAAATAA	8460
371	AAAGGAAGGG	TCTCTTCACT	CATTCCGGTT	ACAGTTCCAC	CAATTGAAAA	AATAAACATT	8520
373	AACAAAGGAA	TAAGCAACTT	ATCTTTGTGC	CCCAACTTCT	TGATTAAAAA	ATAAATTCCT	8580
375	ACATCTATTG	CTCCAGTTTT	CATAATAATC	CCATAAGCAC	CCCCAACAAAT	TAAAAACAAA	8640
377	ACAATAACTT	CAACTGCATG	TTCCATCCCC	TTTGACATTG	CGGTTAAAAAT	AGTCATAATA	8700
379	GGATGTAAAA	ATCCCCTAGA	GCCTCGATCT	ACATATTGAT	AAGTTCCAGC	AACAATTATT	8760
381	TCCCTTTTAG	ATCCATCACC	CATTTGCTTA	AATTCTTTAT	CAAACTTACC	GGCAGGAATC	8820
383	ACATACGTTA	AAATGGTAAC	AAATACAATT	AAAGAAAAATA	TTATTGTAAA	ACTACTTGGC	8880
385	ATTTTGATCA	TAACGTTTCT	CCTAAATAAT	TTCATAAATT	TAATTTTACA	TAAAAAATAC	8940
387	TGTTATCCCA	AAGTTGATAC	CATAATAGCT	TTAATGGTAT	GCACCTTATT	TTCAGCCACA	9000
389	TCAAAAACAA	CTGAATTTTT	ACTTTCAAAA	ATTTCTTCTG	TAACCTCAAT	TCCATCAAGT	9060
391	CCGTATTTAT	CAAAAATATC	CTTACCAATC	ACAGTGTTTA	AGTCATGAAA	AGCAGGCAAG	9120

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393	CAATGCATAA	ATATTGCATC	ATCTTTTGCC	ATGCACATTA	TCTCTTTATT	AACCTGATAA	9180
395	GCCTTTAGAA	GATTTATTCT	ATCTTCCCAA	TTACTCTCCC	CCATAGATAC	CCACACGTCT	9240
397	GTATACACAA	CATCAGCACA	TTTAACAGCC	TCTTCTTTAG	AATCTGTAAT	TGTAATTTTA	9300
399	CCCCACTCT	CTAGGGCTAA	AGACCTAGCC	TTAAGCGTCA	AATCGGGGTC	TGGAAAAAGC	9360
401	TCTTTGGGAG	CAAAAATTCT	AAAATCAAGC	CCATAATAG	CACAGCCTTT	CAATAAGAA	9420
403	TTAGCAACAT	TCCCCCTACC	ATCGCCACAA	AACACTATTT	TAATCCCTTT	CAAACCTCCCC	9480
405	TTATGTTCTT	TTATTGTCAT	TAAATCGGCT	AGTATTTGGG	TTGGGTGAGA	AATATCTGTC	9540
407	AATCCATTGT	AAACAGGAAC	ATTAGAATAA	TTCGCCAAAC	ATTCAACAGT	CTGTTGAGAA	9600
409	AAGCCTCTAA	ATCCAATAGC	ATCATACATG	CGTCCCAAAA	CTCTAGCGGT	ATCTATCATA	9660
411	GACTCTTTTG	AGCCCATTTG	ATTACCCCTA	GATCCCAAAT	AAGTAATATT	TGCCCCTTGA	9720
413	TCATAGGCTG	CGATCTCAAA	AGCACACCGG	GTCCTTGTTG	AATCTTTCTC	GAAAAATTATA	9780
415	ACTATATTTT	TACCTTTAAG	TTTTTGCAC	TCAATTCCTG	CATATTTTGA	CTTTTTTAAA	9840
417	TTAATCGATA	AATCAAGTAA	ATATTTAATA	TCTTTGCTTG	TAAAATCTAA	AAGATTTAAA	9900
419	AAGCTCCTAT	TTCGTAAATT	ATACATCAAC	CACCAACCTT	TACAATCAAG	TTTTTAAAAA	9960
421	CTCATTTAAC	TCATGCTTAA	ACATGCTTAA	ATATTAAATA	TCCTCTCTTA	CTAAAGACAT	10020
423	AGACATGCAT	CTTGGCCCCAC	CACGACCCCT	TGAAAGCTCG	CTAGACGGAA	TTCTGTGAAC	10080
425	TTTAATACCA	TTTTCTTCAA	ACAGCTTATT	AGTTACATGA	TTTCTAGAAT	AAGCAATTAC	10140
427	TTCTCCTGGA	GCTATCGCCA	AAACATTAGC	ACCATCATTC	CATTGTTCTC	TTGCACCATG	10200
429	TATTAATCT	CCACCCGCAC	ATTTTATTAT	GTCAATTTTT	CTGCCATAAT	AAAAGCTCAA	10260
431	AACATCTTTA	AGCTTGGCTT	TTTCTTTTTT	AATATTAATT	TTATTAGAAT	TTGAATTGTA	10320
433	AGTTAAAAACA	TAAATTGAGA	AATACATATC	CATACCTGTA	AAACTTGTA	AAACGCTATA	10380
435	ATCAATTTTG	GTAAAAACTG	TGTCTAAGTG	CATATAGGCT	CTGTTTTTTG	GAATTTTTAAA	10440
437	AGCCAAAATT	GTGCTAAATG	GAGCCTTATT	TTTTAAAAAGA	CTAGCAGCTA	GTTTTTCTAC	10500
439	AGACCCCGCT	TCTGTTCTTT	CTGAGATTCC	AATAACCAAA	AGATCTTTAT	TTAAAACAAA	10560
441	CTCATCCCCA	CCTTCCAAAG	AAGTTTCTTC	CCATCTATTA	AACCAAATTG	GAACATTTTC	10620
443	TTTGTAAGCG	GAATGATATT	TAAAAATATA	CTCTGCAAAT	ATTGTCTCTC	TACGTCTAAC	10680
445	CTTGGTATAC	ATTTTATTTA	TTGTAATTCC	ATTGCCAATA	CTGGCAAAAG	GATCTCTGGT	10740
447	AAATAAAACA	TTGGGCATAG	GATCAATAAC	AAAAAGACTT	GAACCATTAA	CCCAATCATC	10800
449	AAGCGAAAAT	TCACAATCTT	TAAGCTCTTC	TCTTGCAACG	CCGGAAATCA	TTTTAGAAAC	10860
451	CATATTATCA	ACGGTTAAAT	TAGAAAAATA	ATCTTTTAAA	ATATTAATTA	CACCATCTGT	10920
453	TTTTATTTCT	GCTTCCAGAA	TAAATTGAGA	TATAAATTTA	TTTTTGAGCG	CTACAGAAGA	10980
455	AGCAAGAACT	TCACTAACAA	GATCCTCAAC	ATACTCAATT	TCAACTGAAT	TATCTTTTAA	11040
457	AATATTTACA	AAAACCTTCAT	GCTCTTGTCT	TGCAACTTTA	AGATAAGGAA	TATCATCAAA	11100
459	TAAAAAATTT	TTCATAATCA	AGGGTGTCAA	ATTTTCTAAT	TCTTCTCCTG	GCCTATGAAG	11160
461	CAAACTTTT	TTCAAACGAC	CTATTTCCGA	AAATATATTT	ATTGGATTTA	AATATTCCTC	11220
463	TTCCATCGAT	TTCCCCCTTT	ATGAAAATTG	TCATATATTA	AAATACTATA	GTTTATATTA	11280
465	AAAAACATCA	ACTATTTTTA	ATAATATTAA	AAATATAATA	TAAATATAAA	AAATTGAAAA	11340
467	AATAAAAAGTT	CTAAAAAACT	TCAAATCAAA	AACATAAACA	AAAAATTATG	CTAAAAACT	11400
469	AATCATGAAG	AATATTAATA	GATTAATATT	ATTAATATTA	ACTACACACA	CTTTATTATT	11460
471	CTCTTGTC	TTAATTGCAG	ATAATAAGTC	AAAAAATTTA	AGCACATCAG	AAATCATATT	11520
473	AACACAAAAA	ACACTACTAG	AAAGCTCTTT	AATAAAAAAT	CCTTCTAATG	TAGAATATCG	11580
475	AATACCAATA	TCCAGTATCC	AAGAAATTTT	AAACAATAAC	AATGATTCTT	TTTTAATAAA	11640
477	AAAAACAGCA	GCAAAAATCA	AAATAAGCCC	TCAAAAACCT	GAAGAAATAA	AAAACATCT	11700
479	AAATGCTTAT	AAAAATTATC	TAAATAATGA	AACAGAATGG	ATAAAGTTTA	TAGATCAAAG	11760
481	TAGCGTCAAT	GGAAATTTAA	CAATTAAAT	TGATACTGCT	TTTGAAAAAA	AAACAAATTT	11820
483	TAATCATACA	AATTCAGATA	ATGAAAATTT	AACAGAACCTA	ATAGAACCTAC	AAATGCATCT	11880
485	GGAAAAAGAA	ATTTTAAACT	TAATTGAGCA	AACATTTTCAT	GATAAAAAAT	TAGGATATAT	11940
487	ACAATTAAGT	CACATCAACT	CATTCTTTCC	TCAAGAAAAT	ATAAACTCAA	TAACAAAAGA	12000
489	AATAATAGAT	GGAAAAGAAT	ATATTGCACC	GCACATAATA	GCAAATCAAT	TATTAATAAT	12060

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/830,228

DATE: 02/15/2002

TIME: 11:18:49

Input Set : N:\Crf3\RULE60\09830228.raw

Output Set: N:\CRF3\02152002\I830228.raw

L:44 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:46 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:69 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:931 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=1
L:31345 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=2
L:37913 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=3
L:38695 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=4
L:39885 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=5
L:41537 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=6
L:42171 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=7
L:42877 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=8
L:43861 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=9
L:44115 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=10
L:45335 M:111 C: (47) String data converted to upper case,
L:45617 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=14
L:45753 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=15
L:46065 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=16
L:46375 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=17
L:46665 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=18
L:46939 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=19
L:47407 M:111 C: (47) String data converted to upper case,
L:47427 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=21
L:47633 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=22
L:47819 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=23
L:48023 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=24
L:48195 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=25
L:48379 M:111 C: (47) String data converted to upper case,

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/830,228

DATE: 02/15/2002

TIME: 11:18:49

Input Set : N:\Crf3\RULE60\09830228.raw

Output Set: N:\CRF3\02152002\I830228.raw

M:111 Repeated in SeqNo=26

L:48561 M:111 C: (47) String data converted to upper case,

M:111 Repeated in SeqNo=27

L:48693 M:111 C: (47) String data converted to upper case,

M:111 Repeated in SeqNo=28

L:56535 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:155